

IMPROVED IMAGING LENS ARRANGEMENT DESIGNED FOR LOW LIGHT CONDITIONS

ABSTRACT OF THE DISCLOSURE

Disclosed is an improved lens system for low light applications. This improved
5 low light lens system is designed for any suitable low light application, such as the above
described biological imaging application. In one embodiment, a finite conjugate lens
system is disclosed. The lens system includes, in order from a camera side to an object
side, a first lens group and a second lens group. The first and second lens groups are
adapted so that when light is passed from the object side to the image side, a
10 substantially sized region of collimated light is formed between the first and second lens
group. Preferably, the first and second lens groups are adapted to demagnify an object at
the object side.